BINDURA UNIVERSITY OF SCIENCE EDUCATION



FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

DEPARTMENT: NATURAL RESOURCES

PROGRAMME: BSc NATURAL RESOURCE MANAGEMENT

NR 206 (2): FIRE MANAGEMENT

DURATION: 2 hrs

TOTAL MARKS: 70

INSTRUCTIONS TO CANDIDATES

Answer THREE questions out of the following five questions. You must answer question ONE from SECTION A and any TWO questions from SECTION B.

SECTION A (COMPULSORY)

1. (a) Distinguish the following terms:

(i)	Straight and solid streams.	[2 Marks]
(ii)	Thermal layering and gas cooling	[2 Marks]
(iii)	Fire point and flash point	[2 Marks]
(iv)	Pyrolysis and vaporisation	[2 Marks]
(v)	Ground fires and crown fires	[2 Marks]

(b) Explain why fire drills are not performed in many Zimbabwean institutions.

[10 Marks]

(c) Discuss the notion that local communities should always be part of any wildland fire prevention programme.

[10 Marks]

SECTION B

2. 'Wildland fire control by government departments and traditional institutions in Zimbabwe has failed'. Discuss.

[20 Marks]

3. (a) Illustrate the parts of a wildland fire.

[10 Marks]

(b) Explain the initial action that firefighters should take when suppressing a wildland fire.

[10 Marks]

4. Evaluate the role of fire in natural resources management and restoration.

[20 Marks]

5. Discuss the factors that affect wildland fire behaviour.

[20 Marks]

END OF PAPER